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**ABSTRACT OF THE DISCLOSURE**

A real-time data transmission interface suitable for transmitting a nonreal-time data in real-time and transmitting a real-time data in nonreal-time is provided. The present invention comprises a nonreal-time data interface unit for receiving/transmitting the nonreal-time data, and an I/O unit which is coupled to the nonreal-time data interface. In addition, the present invention further comprises a memory unit and a network interface control unit. Wherein, the memory unit is used to store the nonreal-time data and the real-time data. The network interface control unit is coupled to the memory unit for receiving/transmitting the real-time data.